

ECS Configuration Change Request

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1. Originator Jenny Boliek	2. Log Date: 3/29/02	3. CCR #: 02-0259	4. Rev: —	5. Tel: 301-925-1122	6. Rm #: 3204D	7. Dept. SE
8. CCR Title: Patch_6A.05_Ingest.02. Contains fix for 14 NCRs.						
9. Originator Signature/Date Jenny Lyn Boliek /s/ 3/29/02			10. Class II	11. Type: CCR	12. Need Date: 3/29/02	
13. Office Manager Signature/Date Arthur Cohen /s/ 3/29/02			14. Category of Change: Initial ECS Baseline Doc.		15. Priority: (If "Emergency" fill in Block 27). Emergency	
16. Documentation/Drawings Impacted:			17. Schedule Impact:		18. CI(s) Affected: INGEST	
19. Release Affected by this Change: 6A		20. Date due to Customer: 032802		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: 33201, 32979, 33056, 30629, 32949, 33168, 32275, 32488, 33057, 32987, 33465, 33557, 33655, 31753						
23. Problem: (use additional Sheets if necessary) St=C, Sv=2, Bug id = ECSed33201, 6A.05:TS2:L7 Ingest of L70RF1 data fails with Xfer Error St=T, Sv=2, Bug id = ECSed32979, 1 granule from a 2 granule Request failed to get into InGranuleQueue Tbl St=T, Sv=2, Bug id = ECSed33056, No retry logic around DsCIESDTRreferenceCollector::Create St=V, Sv=2, Bug id = ECSed30629, Implement Ingest Performance Improve St=C, Sv=2, Bug id = ECSed32949, GranSrvr recovery failed when granule staging disk is deleted,						
24. Proposed Solution: (use additional sheets if necessary) Deliver Patch_6A.05_INGEST.02. This Patch can be loaded on top of the initial delivery of 6A.05 and over TE_6A.05_INGEST.01A. (Original delivery is to NSIDC only) Other DAACs will receive this patch after SI&T has completed testing.						
25. Alternate Solution: (use additional sheets if necessary) Delay testing; wait until next full system delivery next week						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) Ingest Slow Down and would have to wait until next full delivery of system.						
27. Justification for Emergency (If Block 15 is "Emergency"): Correction of listed NCRs						
28. Site(s) Affected: <input type="checkbox"/> EDF <input type="checkbox"/> PVC <input type="checkbox"/> VATC <input checked="" type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input checked="" type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. EDF/SCDV CCB Chair (Sign/Date): A. Abtahi /s/ 3/29/02			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
33. M&O CCB Chair (Sign/Date): Debra Stepp /s/ 3/29/02			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
34. ECS CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS			

ADDITIONAL SHEET

CCR #: 02-0259 **Rev:** — **Originator:** Jenny Boliek

Telephone: 301-925-1122 **Office:** 3041

Title of Change: Patch_6A.05_Ingest.02 . For NSIDC DACC Only. Contains fix for 14 NCRs.

ClearCase

Please build 1 SUN with the following packages:

.EclnEMAILSVR.pkg
.EclnGUIOPSWWS.pkg

Please build 1 IRIX65 tar file with the following packages:

.EclnAPCSVR.pkg
.EclnDatabase.pkg
.EclnINTFCVR.pkg

Please name the tarfiles Patch_6A.05_INGEST.02

DAAC INSTALL INSTRUCTIONS

See attached Word document: 6A05_INGEST02_Install.doc

Additional NCRs

St=V, Sv=2, Bug id = ECSed33168, Delete e0icg12 from .sitemap, .sitehostmap, and .hostmap
St=T, Sv=2, Bug id = ECSed32275, Xfer_Err received with TransferFlag=0 and STMGT ReqMgr is down
St=T, Sv=2, Bug id = ECSed32488, Tweaking the Ingest Code for ASTER Level-1 to Enable Mappin
St=T, Sv=2, Bug id = ECSed33057, Mutex lock around GetURfromSDSRV causes slow processing in EclnGran
St=C, Sv=2, Bug id = ECSed32987, Disposition syntax in PAN does not follow IDC
St=T, Sv=2, Bug id = ECSed33465, 6A.05:TS1:Ingest did not recover when system was shut down
St=T, Sv=2, Bug id = ECSed33557, Ingest Dao Tunneling Script
St=T, Sv=2, Bug id = ECSed33655, EclnGran core dumps while Preprocessing multiple AVI granules (GRIB fmt)
St=V, Sv=2, Bug id = ECSed31753, GSFC/SMC: Increase PID column width for EcCoMonitor

Test Report is attached.

Install Instructions for Patch_6A.05_INGEST.02

INGEST.02 may be installed directly on top of 6A.05 or 6A.05 plus Patch_6A.05_INGEST.01A. There are no other dependencies for this Patch.

A. SETUP:

1. Untar the IRIX65 and SUN tar file using the following scripts:

Patch_6A.05_INGEST.02_Mar-18-2002_iris65_20020318_1646111_Setup.ksh

Patch_6A.05_INGEST.02_Mar-18-2002_sun5.5_20020318_164344_Setup.ksh

When prompted, you **will need** to install a new version of EcsAssist.

Remember now that all MODES are at the 6A.05 level you no longer need to maintain your 6A.04 version of EcsAssist. You may simply install 6A.05 EcsAssist directly from the tar file. If you use EcsAssist to monitor servers and clients this update to EcsAssist will allow EcsAssist to display larger Process IDs (PIDs). This change was needed to monitor servers on SGI hosts. This is the only change to the 6A.05 version of EcsAssist. You will also notice you will never have a new version of EcCoEpMgr or EcCoCdsMgr delivered. The old versions may be deleted, if desired.

2. `cd <staging_area>/IRIX65/CUSTOM/dbms/INS`
3. `chmod -R 775 *`
4. Quiese all Ingest by killing all the EcInPolling Clients.
5. After Ingest is quiesed, kill the INGEST servers and the Ingest GUI(s).

B. INSTALLATION:

1. Logon to any SUN in the .sitemap. (E.A.S.I must be run from a SUN)
2. Bring up EcsAssist and via E.A.S.I. install all of INS. This includes the following five packages:
 - .EcInAPCSRV.pkg
 - .EcInDatabase.pkg
 - .EcInINTFCSVR.pkg
 - .EcInEMAILSRV.pkg
 - .EcInGUIOPSSWS.pkg

C. CONFIGURATION:

There are no new configuration parameters for INGEST. Therefore you do not need to run any mkcfgs and apply no .rgypatches.

IMPORTANT ONLY IF YOU HAVE A FIREWALL:

1. Logon to the host(s) where the EcInGUI is installed (xxacsnn)
2. `cd /usr/ecs/<MODE>/CUSTOM/cfg`
3. `ls -lrt SLCsocks5.conf*` (This will display a list of SLCsocks5.conf files)
4. Determine which file has the correct value for your firewall configuration and move that file to SLCsocks5.conf. (Delete the other copies if desired.)
 - example: `mv SLCsocks5.conf.20020312121212 SLCsocks5.conf`
5. Logon to the host where the EcInReqMgr is installed (xxicgmn)
6. `cd /usr/ecs/<MODE>/CUSTOM/cfg`
7. `ls -lrt SLCsocks5.conf*` (This will display a list of SLCsocks5.conf files)
8. Determine which file has the correct value for your firewall configuration and move that file to SLCsocks5.conf. (Delete the other copies if desired.)
 - example: `mv SLCsocks5.conf.20020312121212 SLCsocks5.conf`
9. Logon to the host(s) where the EcInPolling is installed (xxacgmn) and (xxicgmn)
10. `cd /usr/ecs/<MODE>/CUSTOM/cfg`
11. `ls -lrt clientproxy.conf*` (This will display a list of clientproxy.conf files)
12. Determine which file has the correct values for your firewall configuration and move that file to clientproxy.conf. (Delete the other copies if desired.)

D. PATCH INGEST DATABASE:

1. On the host where the INGEST database is installed (xxicgmn), bring up EcsAssist Subsystem Manager
2. Select the MODE and INS, and then click on Database Patch
3. Update the INGEST database with the following patch:

Patch Number	Patch Description
6249	This patch adds InGQInsert stored procedure to the Ingest database. (NCR 32979)

(Since the delivery of 6A.05 Patches 6249 is the only patch to INGEST database.)

You will also notice in your /usr/ecs/<MODE>/CUSTOM/INS/dbms directory scripts named with the following pattern. EcInDbESDT_NCRxxxxx.sql, where xxxxx is an NCR number. These scripts get applied to the Ingest database when new descriptors are delivered. We are now NO LONGER adding new ESDTs and new ESDT versions to the Ingest database patch via scripts. These scripts get delivered as part of the .EcInDatabase.pkg, but **should not** be applied to your Ingest database unless they are delivered as part of an ESDT delivery (PATCH/TE_6A.05_ESDT_xx_<datatype>). At this time the following scripts are being delivered:

EcInDbESDT_NCR33060.sql
EcInDbESDT_NCR33087.sql
EcInDbESDT_NCR33113.sql
EcInDbESDT_NCR33182.sql
EcInDbESDT_NCR33361.sql
EcInDbESDT_NCR33376.sql

AGAIN YOU DO **NOT** NEED TO RUN THESE SCRIPTS AT THE TIME OF THIS DELIVERY!!! If you did this would not hurt your database, but there is no need to do so.

POST INSTALLATION:

1. Cold start the Ingest Servers (EcInAuto, EcInReqMgr, and EcInGranServer(s)).
2. Verify The EcInReqMgr is completely up (End of Start Monitoring) and then warm start all the INGEST polling clients.
3. You may also bring one or more Ingest GUIs if needed.

INGEST.02 TEST REPORT-

32979 (T) 1 granule from a 2 granule Request failed to get InGranuleQueue Tbl

Test Plan:

- 1) Kick off a 2 granule MODAPS Ingest request
- 2) Verify that both of the granules are successfully Ingested

Test Report:

- 1) Both granules were successfully ingested several times.

31753 (R) GSFC/SMC: Increase PID column width for EcCoMonitor

Test Plan:

- 1) Execute EcCoMonitor [MODE] [Subsystem]
- 2) Verify that PID number column is spaced out

Test Report:

- 1) Successfully verified that the PID number column's width was increased.

33056 (T) No retry logic around DsCIESDTRedundancyCollector::Create

Test Plan:

- 1) Kill Ingest GranServer (before starting request)
- 2) Ingest data with browse granules with linkage files
- 3) Verify that system does retries, not suspend the data

Test Report: Successfully verified that system does retries and data doesn't suspend.

30629 (T) Implement Ingest Performance Improvements

Test Report: (view NCR in xddts, no longer a problem)

32949 (C) GranSrvr recovery failed when granule staging disk is deleted

Test Plan: (Regression testing)

Test Report: Successfully completed regression testing

33168 (C) Delete e0icg12 from .sitemap, .sitehostmap, and .hostmap

Test Plan: (**None needed**)

Test Report: Successfully verified by inspection the e0icg12 is no longer listed in the .sitemap, sitehostmap or .hostmap.

33201 (C) 6A.05:TS2:L7 Ingest of L70RF1 data fails with Xfer Error

Test Report: Regression test successfully executed

32488 (T) Tweaking the Ingest Code for ASTER Level-1 to Enable Mapping

Test Plan:

- 1) Within the Ingest database, move AST_L1A and L1B version ID to 003
- 2) Bounce the Ingest Request Manager
- 3) Within the staging disk directory, vi the metadata file to verify that SceneCloudCover value has been changed to QAPercentCloudCover

Test Report: Successfully verified that SceneCloudCover has been updated to QAPercentCloudCover

33057 (T) Mutex lock around GetURfromSDSRV causes slow processing in EcInGran

Test Report: (No test plan, to be verified next GSFC 24hr run)

32987 (T) Disposition syntax in PAN does not follow ICD

Test Plan:

- 1) Ingest data
- 2) Verify within the PAN file that the Disposition syntax has "" around the message

Test Report:

- 1) Successfully verified that the Disposition message had quotes around it.

33465 (T) 6A.05:TS1:Ingest did not recover when system was shut down

Test Plan:

- 1) Put a PDR in the proper polling directory with the wrong Data Provider name
- 2) Bounce the Ingest request manager (warm) before the request is finished.

Test Report: Successfully verified that the Ingest recovered.

33557 (R) *Ingest Dao Tunneling script*

Test Report: (Not being tested)

33655 (V) EcInGran core dumps while Preprocessing multiple AVI granules (GRIB fmt)

Test Plan:

- 1) *Ingest several AVI granules*
- 2) *Verify no core dump*

Test Report:

- 1) *Successfully verified no core dump.*

32275 (V) Xfer_Err received with TransferFlag=0 and STMGT RegMgr down

Test Plan:

- 1) Ingest data with TransferFlag = 0 (e.g. EDOS)
- 2) Kill the STMGT Request Manager
- 3) Verify that request gets suspended – not failed.

4) Bring up STMGT ReqMgr and resume request

Test Report:

1) Successfully ingested EDOS data with STMGT ReqMgr being bounced.